APPENDIX C

Comparison of Features

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
System supports flexible configuration and		×				
access options. (p-3, 12-15) (p-16, 5-13)						
Open standards supported for hardware,		×				
software and firmware components and						
standardized medical codes, definitions and						
formats are supported. (p-3, 15-18) (p-8, 10-				-		
12) (p-17, 9 through p-18, 27)						
Provides information integral to		×				
management of entire health-care value						
chain. (p-3, 19-23) (p-8, 14-29)						
System is extensible to provide secure		×	•			
access to social security, annuity and						
retirement account and benefit information,						
providing a unified view of an individual's				-		
benefit and payment status using a single						
individual information device. (p-61, 23-26)						
Allows secure access to heath care, social		×				
security, annuity, retirement account and						
benefit information. (p-3, 23-27) (p-8, 29-30						
through p-9, 1-3)						
Provides centralized record collection linking		×				
local records to those stored remotely. (p-4,						
1-4) (p-9, 5-10) (p-18, 29 through p-19, 28)						
Data integrity checking on all database		×				
fields during update process. Data						
elements run through edit routines defined						
within the central data dictionary to ensure						
data values are within correct ranges.						
Invalid entries result in error messages. (p-						

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
47, 4-23)						
Centralized host used to maintain,		×				
consolidate and redistribute information						
generated at all access endpoints. (p-5, 11-						
15) (p-9, 5-10)						
Centralized security management covers all		×				
database parameters through platform						
services. (p-47, 25 through p-48, 2) (p-20,						
System provides immediate transfer of		×				
results and information among specialist		,				
service providers, individuals and						
information sites. (p-3, 29-30 through p-4, 1-					•	
12) (p-9, 12-18) (p-12, 7-11) (p-13, 12-13)						
Individual service recipient provided with an		×	Optional	×		
individual information device for information						
Individual information device stores		×		×		
insurance information, emergency records						
and critical health care history. (p-4, 14-20)						
(p-15, 29 through p-16, 3)						
Can be implemented on a LAN or intranet		×				
(or internet) server. (p-4, 27-29 through p-5,						
1-2)		3	2			
Services can be authorized through access		×	Claimed, but			
to the nost which can calculate costs of			not designed.			
services as well as tile allibuit of available						
risurance coverage: (p-5, 25-25) (p-8, 20- 22) (p-13, 13-18)		•		: :		
System can be used to generate billing		×	Payment			
information and to electronically transfer			claimed, but			
funds from sources such as insurers, bank			not designed.			
accounts and credit card accounts. (p-5, 25-						
27) (p-9, 22-24) (p-13, 20-21)						
Insurance carrier can be electronically billed		×				

General Fedities	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
and can remit payment through electronic funds transfer to the service provider's						
account at a specified payment interval. (p-						
5, 29-30 through p-6, 1) p-13, 20-22)						
Payment histories can be electronically		×				
transferred from the insurance carrier to the						
service provider on the network. (p-6, 1-3)						
Charges to service recipient can be		×				
calculated and transmitted to the service	7	•				
recipient. (p-6, 3-4) (p-13, 26-30)						
On-line diagnostic services provided. (p-6,		X	Claimed but			
6-7) (p-9, 26-27) (p-12, 26-30 through p-13, 1-10)			inoperable.			
System can be integrated with statistical		×				
analysis software. (p-6, 7-10) (p-9, 28-30)						
Messaging and scheduling services,		×	Appointment			
appointment records and administrative			claimed, but	-		
information. (p-6, 12-14) (p-12, 13-17)			not designed.			
Service historical records stored on system		×				
can be accessed by researchers. Records						
can be stripped of identifying information.						
Centralized data dictionary identifies codes		×				
for entire system, used in integrity checking,						
used in diagnostic checking, and used to						
define security access on fields (p-17, 1-22)						
Standardized vocabulary and data formats		×				
are used and are all defined through the						
centralized data dictionary to ensure						
universal usage and the ability to translate						
between standards bodies. (p-18, 12-27)						
Keys are defined for the linked datastores		×				
and show how datastore records are						
accessed and updated by system functions						

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
and how the datastores are linked for research purposes. (p-14, 22 through p-16, 3)						
System designed to support non-peak batch transfers for non-critical administrative		×				
information to reduce bandwidth overhead and network contention. (p-14, 1-9)						
Central platform data storage, backup and restore mechanisms for applications		×				
management are designed into the shared						
recovery capabilities. (p-20, 9-15)		-				
Medicellinsurer/ BenefitProvideriteatures	ලිංකකයාම	wesayer	ളെവിഡാത	Pliroda	(Erce)	l=delson/Mayard
Plan definition and update to plan/benefit and service provider databases. (p-26, 11-26)		×				
Users define all plan characteristics and limitations including coverage options,		×				
geographic coverage, lifetime treatment						
medications covered, service providers and						
categories of services provided, limitations				ı		
coverage, and notification and payment			-			
Plan information includes procedures.		×	Limited. No			
pharmaceuticals, service providers and plan			entry or			
components linked with payment and reimbursement information. (p-26, 20-26)			usage method.			
Effective date capabilities on plan changes. (p-26, 28)		×				
Batched update and copy features for plan change simplification. (p-26, 28 through p-		×				
27, 2)						

Automated notification of clarges to all affected parties, (p-27, 1-3) Reduce or eliminate the costs of publishing and distributing directories of caregiver information through the automated notifications and on-line identification of provides, (p-21, 24-28) System provides marketing and enrollment support for care plants. (p-6, 22-25) (p-27, 24-26) Lydate for plantbenefit database, with plan sponsor information, (p-27, 24-26 and p-28, 1-5) Lydate for subscriber database, as linked to plantbenefit database. (p-27, 26 through p-28, 5) Lydate for service provider database, as linked to plantbenefit database, (p-27, 20-122) Lydate for service provider database, (p-27, 20-1222) Lydate				Referral	×		Automated referral processing for in-plan
nated notification of changes to all ed parties. (p-27, 1-3) ed parties. (p-27, 1-3) sixributing directories of caregiver nation through the automated hardward or line identification of bars. (p-21, 24-28) istrictorial to through the automated hardward or line identification of bars. (p-21, 24-28) istrictorial through the automated hardward or line identification of bars. (p-21, 24-28) istrictorial through the automated hardward or line identification of bars. (p-21, 24-28) istrictorial through the automated hardward or line identification of bars. (p-27, 24-26) istrictorial through parties are sor information. (p-27, 24-26 and p-28. Its for senvice provider database, (p-27, 20- its for senvice provider database, (p-27, 20- its for senvice provider database. (p-27, 20- its for senvice provide							(p-28, 28-30 and p-29, 1-2)
And control Features Comments Indication of changes to all ed parties. (p-27, 1-3) ed parties. (p-27, 1-3) Exercition and on-line identification of stars. (p-21, 42-28) Instributing directories of caregiver nation through the automated attains and on-line identification of stars. (p-21, 42-28) Instributing directories of caregiver nation through the automated attains and on-line identification of stars. (p-21, 42-28) Instributing directories of caregiver nation through the automated dark nations and on-line identification of stars. (p-21, 42-28) Instributing directories of caregiver nation for automated attained to sort information. (p-27, 24-26) Instributing directories of caregiver nation for an only provides marketing and enrollinent to replace ment individual information. (p-27, 28 through p-sponsor database. (p-27, 20-fine) Instributing directories of the file of service provider database. (p-27, 20-fine) Instributing directories of the file of service and payment amounts calculated for service and with approval codes and payment more detained of payers. Authorization record at with approval codes and payment individual information of benefits. Instributing directories of the service of the file of the payers. Authorization decline (due to plan the service of the payers. Authorization decline (due to plan the service of the payers. Authorization record and the approval codes and payment more decline for the service of the payers. Instributing directories of the payers of							exceptions, appeals and questions follows
Refered Features Comments Adminings Act parties, (p-27, 1-3) ed parties, (p-27, 1-3) isdiributing directories of caregiver ration through the automated articular intrough the automated bars. (p-21, 24-28) refered plans. (p-6, 22-25) (p-27, 24-26 and p-28, 30 information. (p-27, 26 through p-3) te for plan/benefit database, as linked to paponsor database. (p-27, 26 through p-3) te for subscriber database, as linked to plan/benefit database. (p-27, 20-3) to provide marketing and enrollment information te for service provider database, as linked to plan/benefit database. (p-27, 20-3) to provide marketing and enrollment information te can be requested for service ecan be requested for service ecan be requested for service entity or database. (p-27, 20-3) and database. (p-27, 20-3) to plan/benefit database. (p-27, 20-3) file; Just a note file. Y Authorization of benefits. Y Authorization of benefits. X Authorization of designed. X X Y Authorization record and with approval codes and payment mounts coline decline (due to plan and the plan and				·			message. Manual review procedures for
reconstruction of changes to all X ad parties. (p-27, 1-3) ce or eliminate the costs of publishing sirchufing directories of caregiver ration through the automated attention and on-line identification of laters. (p-21, 24-28) ders. (p-21, 24-28) ders. (p-21, 24-28) ders. (p-27, 24-28) ders. (p-27							parameters) transmits online decline
Accomments denseral Features Indeed notification of changes to all according or early and parties. (p-27, 1-3) Is or parties. (p-27, 1-3) Is or information. (p-27, 24-26 and p-28. In pansor database. (p-27, 20- To plan/benefit database. (p-27, 20- To plan				×	×		Authorization decline (due to plan
Accomments Comments Admission Commings Pitroda Errel action to fichanges to all X action through the automated attions and on-line identification of personal formation through the automated attions and on-line identification of personal persona		•					amounts. (p-28, 11-28)
Comments Johnson Cummings Pitrode Errel mated notification of changes to all ad parties. (p-27, 7, 1-3) ce or eliminate the costs of publishing stributing directories of caregiver nation through the automated ations and on-line identification of lers. (p-21, 24-28) Improvides marketing and enrollment ort for care plans. (p-6, 22-25) (p-27, te for plan/benefit database with plan sor information. (p-27, 24-26 and p-28, sor information. (p-27, 24-26 and p-28, sor information. (p-27, 25 through p- ponsor database, (p-27, 26 through p- ponsor database. (p-27, 20- replacement individual information e can be requested for service ent. (p-28, 7-9) X Authorization le payers. Authorization record X Authorization le payers. Authorization record							created with approval codes and payment
General Features Comments Commings Commings Commings Commings Pitrode Ertel A ed parties. (p-27, 1-3) Commings Commings X ed parties. (p-27, 1-3) Commings X Expectation of changes to all X ed parties. (p-27, 1-3) X X X X X X X X X X X X X				not designed.			multiple payers. Authorization record
General Features Genments Johnson Cummings Pitroda Ertel mated notification of changes to all X ed parties. (p-27, 1-3) Ce or eliminate the costs of publishing ce or eliminate the costs of publishing x istributing directories of caregiver auton through the automated aritions and on-line identification of lers. (p-21, 24-28) Mr. (p-21, 24-28) To rare plans. (p-6, 22-25) (p-27, 24-26 and p-28, 24-26 and p-28, 24-26 and p-28, 24-26 through p-28, 25-27, 26-27,			•	claimed but			Multiple payment amounts calculated for
General Features Comments Commings Piroda Ertel X Commings Piroda Ertel Commings Commings Commings Commings Firoda Ertel Commings Firoda Ertel Commings Commings Firoda Ertel Commings Piroda Ertel X X Commings Firoda Ertel Commings Firoda Firo				Authorization	×		Automated authorization of benefits.
General Features General Features Rated notification of changes to all Red parties. (p-27, 1-3) Red parties. (p-27, 1-3) Ce or eliminate the costs of publishing istributing directories of caregiver nation through the automated autions and on-line identification of lers. (p-21, 24-28) The for plan/benefit database with plan sor information. (p-27, 24-26 and p-28, ponsor database. (p-27, 26 through p-1) Fer for subscriber database, as linked to ponsor database. (p-27, 20-1) The for service provider database, as linked to plan/benefit database. (p-27, 20-1) The for service provider database, as linked to plan/benefit database. (p-27, 20-1) The for service provider database, as linked to plan/benefit database. (p-27, 20-1) The for service provider database, as linked to plan/benefit database. (p-27, 20-1) The for service provider database, as linked to plan/benefit database. (p-27, 20-1) The for service provider database. (p-27, 20-1) The formation the file. The formation of the file. The file file							recipient. (p-28, 7-9)
General Features General Features Tated notification of changes to all act on provides (p-27, 1-3) The provides marketing and enrollment or information. (p-27, 24-26 and p-28, sor information. (p-27, 26 through p-) The for service provider database, as to plan/benefit database. (p-27, 20- To replacement individual information To commings Pitroda Ertel X Cummings Pitroda Ertel X Insurings Pitroda Ertel A Insurings Pitroda Ertel A Insured file Fitroda Ertel A Filtroda Filtroda Ertel A Filtroda Filtrod							device can be requested for service
General Features Comments Abhason Cummings Pitroda Ertel X ed parties. (p-27, 1-3) Ce or eliminate the costs of publishing directories of caregiver nation through the automated attons and on-line identification of lers. (p-21, 24-28) It for plan/benefit database. (p-27, 26 through p-sponsor database. (p-27, 20-sponsor databas					×		New or replacement individual information
General Features Comments Johnson Cummings Pitroda Ertel A and parties. (p-27, 1-3) Ce or eliminate the costs of publishing directories of caregiver nation through the automated artions and on-line identification of lers. (p-21, 24-28) Improvides marketing and enrollment or for care plans. (p-6, 22-25) (p-27, 25) (p-27, 24-26 and p-28, sor information. (p-27, 24-26 and p-28, sor information. (p-27, 24-26 and p-28, sor information. (p-27, 26 through p-1) The for subscriber database, as linked to sponsor database. (p-27, 26 through p-1) The for service provider database, as linked to sponsor database. (p-27, 20-1) The for service provider database, as linked to sponsor database. (p-27, 20-1) The for service provider database, as linked to sponsor database. (p-27, 20-1) The for service provider database, as linked to sponsor database. (p-27, 20-1) The for service provider database, as linked to sponsor database. (p-27, 20-1) The for service provider database. (p-27, 20-1)				note file.			22)
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General Features Interest notification of changes to all Enterest notification of changes to all Examples (p-27, 1-3) Experies. (p-27, 1-3) Experiment the costs of publishing is intributing directories of caregiver nation through the automated attons and on-line identification of ders. (p-21, 24-28) Experiment provides marketing and enrollment or for care plans. (p-6, 22-25) (p-27, and the for plan/benefit database with plan sor information. (p-27, 24-26 and p-28, as linked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to possible of the costs of publishing is a sinked to publishing it as a sinked to pub				"Physicians	×		Update for service provider database, as
mated notification of changes to all ed parties. (p-27, 1-3) ed parties. (p-27, 1-3) Eac or eliminate the costs of publishing istributing directories of caregiver nation through the automated nations and on-line identification of iters. (p-21, 24-28) The for care plans. (p-6, 22-25) (p-27, 24-26 and p-28, sor information. (p-27, 24-26 and p-28, sponsor database. (p-27, 26 through p-1) The for subscriber database, as linked to entry or improvides. (p-27, 26 through p-1) Ester (p-27, 26 through p-1)				access			
mated notification of changes to all ed parties. (p-27, 1-3) ed parties. (p-27, 1-3) Eac or eliminate the costs of publishing sistributing directories of caregiver nation through the automated hard. Sor information. (p-2, 24-26) (p-27, 24-26) (p-27, 24-26 and p-28, sponsor database. (p-27, 26 through p- To the for subscriber database, as linked to sponsor database. (p-27, 26 through p- Comments Johnson Cummings Pitrods Pritods Prit				entry or			28, 5)
mated notification of changes to all ed parties. (p-27, 1-3) ce or eliminate the costs of publishing istributing directories of caregiver nation through the automated ations and on-line identification of lers. (p-21, 24-28) The for plan/benefit database with plan sor information. (p-27, 24-26 and p-28, sor information. (p-2				limited. No		-	plan sponsor database. (p-27, 26 through p-
mated notification of changes to all ed parties. (p-27, 1-3) Ce or eliminate the costs of publishing itstributing directories of caregiver nation through the automated cations and on-line identification of lers. (p-21, 24-28) In provides marketing and enrollment or for care plans. (p-6, 22-25) (p-27, 24-26 and p-28, sor information. (p-27, 24-26 and p-28, sor inf				"Insured file"	×	•	Update for subscriber database, as linked to
General Features Comments Johnson Cummings Pitroda Ertel mated notification of changes to all X X ed parties. (p-27, 1-3) X X ce or eliminate the costs of publishing iistributing directories of caregiver nation through the automated rations and on-line identification of ders. (p-21, 24-28) X Improvides marketing and enrollment ort for care plans. (p-6, 22-25) (p-27, 24-26 and p-28, X X X							•
General Features Comments Johnson Cummings Pitroda Ertel nated notification of changes to all X X ed parties. (p-27, 1-3) X X ce or eliminate the costs of publishing iistributing directories of caregiver nation through the automated rations and on-line identification of ders. (p-21, 24-28) X ders. (p-21, 24-28) X rm provides marketing and enrollment or tor care plans. (p-6, 22-25) (p-27, p-27) X te for plan/benefit database with plan sor information. (p-27, 24-26 and p-28. X							1-5)
mated notification of changes to all X ed parties. (p-27, 1-3) ce or eliminate the costs of publishing listributing directories of caregiver nation through the automated ations and on-line identification of ders. (p-21, 24-28) rm provides marketing and enrollment ror care plans. (p-6, 22-25) (p-27, te for plan/benefit database with plan Comments Johnson Cummings Pritroda Ertel X Cummings Pritroda Ertel X X X X Cummings Pritroda Ertel X X X X X X X X X X X X X							sponsor information. (p-27, 24-26 and p-28,
General Features Comments Johnson Cummings Pitroda Ertel mated notification of changes to all X X End ed parties. (p-27, 1-3) X X End ce or eliminate the costs of publishing ilstributing directories of caregiver nation through the automated rations and on-line identification of large in provides marketing and enrollment				:	×		Update for plan/benefit database with plan
Comments Johnson Cummings Pitroda Ertel X 3 X X X X X X X X X X X							5-20)
Hing X X Pitroda Ertel							support for care plans. (p-6, 22-25) (p-27,
Comments Johnson Cummings Pitroda Ertel X hing X					×		System provides marketing and enrollment
Comments Johnson Cummings Pitroda Ertel X hing X f							providers. (p-21, 24-28)
Comments Johnson Cummings Pitroda Ertel X hing X							notifications and on-line identification of
Comments Johnson Cummings Pitroda Ertel X hing X		-			,		information through the automated
res Comments Johnson Cummings Pitroda Ertel Nanges to all X Sts of publishing X							and distributing directories of caregiver
res Comments Johnson Cummings Pitroda Ertel Nanges to all X					×		Reduce or eliminate the costs of publishing
Comments Johnson Cummings Pitroda Ertel							affected parties. (p-27, 1-3)
Comments Johnson Cummings Pitroda Ertel					×		Automated notification of changes to all
	Edelson/ Mayaud	Ertel	Pitroda	Cummings	Johnson	Comments	General Features

				×		Security rules built into database query process. (p-31, 20-30)
				×		Data query capability for user-selected parameters. Query as one-time or ongoing. (p-31, 20-30)
			-	×		Access to full service recipient care information for adjudication of claims and for coverage decisions. (p-31, 10-12)
				×		Cost and outcomes of care information for analysis. (p-31, 9-30)
				×		Organizational summaries can be generated for use in developing practice guidelines. (p-31, 1-7)
				×		Service data analysis for benefit calculations.
				×		Reporting and statistical information for service provider monitoring. (p-30, 26-30)
				×		Access and processing of data for analysis purposes. (p-30, 26-30 through p-31, 1-30)
			Claims insurance linked to bank. No design.	×		Target payment account information processing and payment history record generation. Includes exception handling message construction and routing. (p-30, 1-24)
				×		Transmittal of invoices from service provider to insurer and electronic funds transfer to service provider account. (p-29, 26-30 through p-30, 1-24)
			Request through phone call.	×		Appointment request can be automatically generated and transmitted. (p-29, 22-24)
				×		Authorization approval for referral generated and sent to provider from host. (p-29, 21-22)
			claimed but not designed.			providers, geographic or affiliation search or for specific targeted referral. (p-29, 11-19)
Edelson/ Mayaud	Ertel	Pitroda	Cummings	Johnson	Comments	General Features

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
				0		
(Health/IBenefit Plan\Sponsorfeatures	Comments	Johnson	Gummlngs	Pliroda -	Eἤê)	Edelson/[Mayaud]
Open enrollment processes allow user to		×		:		
make changes to sponsored benefit plans						
(through access to central host). (p-32, 1-16)						
User can make changes to benefit		×				
information including auxiliary						
reimbursement accounts, insurance,						
annuity, retirement or workman's						
compensation in plan/benefit database. (p-						
32, 12-15)						
User can make changes to plan		×				
participation records via subscriber/medical						
history database. (p-32, 12-16)						
Production and distribution of new or		×				
replacement individual information devices						
can be requested or devices can be						
deactivated. (p-32, 18-22)				-		
System provides marketing and enrollment		×				
support for care plans. (p-6, 22-25)	:					
Users can search for appropriate plans		×				
within the plan/benefit database. (p-32, 28-						
Users can compare plans and communicate		×				
with insurer to apply for plan inclusion. (p-						
02, 00 (1100gii p-03, 1-22)		<				
when medical insurer adds or changes		×				
benefit provider. (p-33, 1-3)						
Exception item processing and dispute resolution features. (p-33, 5-10)		×				
Local storage can be used for electronic		×				

	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
messaging. (p-33, 12-16)						
The user can construct data queries of		×			,	
information stored in the subscriber/medical						
history and provider/service history						
databases.	-					
Data query results used for management of		×				
medical care reimbursement accounts,						
workers' compensation or other auxiliary						
plans, to respond to service audits,						
information for tax and reporting or for						
service participant queries. (p-33, 24-30						
through p-34, 1-8)						
Individual Service Recipient features	- Comments	Johnson *	Cummings	Pitroda	Ertel	
		×		×		
individual information device which holds		0	optional, but			
identification and critical care information.			not defined.			
(p-34, 15-25)			•			
Device provides individual health care		×		Could if		•
history, allergies, current medications,				defined		
emergency and contact information to						
service providers. (p-34, 15-30)						
Device can be read by portable reader. (p-		×		×		
34, 27-30)						
Service provider can use history information		×				
from device in conjunction with diagnostic						
features to aid treatment option definition.						
(p-35, 1-3)						
Eliminates need to fill out paper forms or		×		Could if		
remember episodes of care, dates,				defined		
treatments, outcomes, provider, etc. (p-35,						
5-8)						
Eliminates problems of selecting referral		×				
service providers covered by service						
recipient plan(s) and identifying payment						
responsibility. (p-35, 7-9)						
Users can access treatment option		×				

General Features	Commente	inhanna	Cumminas	Ditrodo	Erfol	Eddlern Maurid
information and define their own care network (p-35, 11-14)						- constant mayana
Service recipients can search health care		×				
provider and organization records. (p-6, 27-30)						
Service recipients can review contents of		×	-			
health care record and perform searches						
supporting treatments and care contacts. (p-7, 1-3)						
Users can access information on benefit		×				
plans, reimbursement accounts, insurance,						
annuity, retirement or workers'						
compensation plans. (p-35, 22-27)						
Users can retrieve plan, treatment and		×				
messages and transmit them to other						
service participants within the system. (p-35,						
22-30 through p-38, 1-24)、						
Users can audit their (or family member)		×				
history and emergency information, identify						
changes and route changes, questions,					-	
options or appointment requests to other						
service participants within the system. (p-						
36, 1-12 through p-38, 1-3)						
User can access health plan information for		×				
open enrollment or for ongoing review of						
plan parameters on approved procedures,						
pharmaceuticals, providers,						
payment/reimbursement ceilings and out-of-						
network services coverage. (p-36, 14-28)						
User can use comparison form on computer		×			ì	
to compare plans and their options,						
coverage, service providers and with result,						
construct messages and requests to other		•				
service participants within the system. (p-						
36, 20-28)						

				×		Diagnostic, procedural and medication
				×		Patient record can be loaded into a select format for viewing or printing. (p-39, 24-28)
Categories but not diagnostic codes				×		User can download diagnostic codes and categories use during consultation. (p-39, 15-22)
used, but no emergency info		defined.		· ×		either on or off-line. (p-39, 3-13)
				×		Customized GUI formats can be configured to follow the standards for different specialties. (p-18, 4-10)
	Care record is only for diagnosis related groups (DRG) analysis in submitting claims for payment			×		User can display default or customized patient care record including identification, emergency information and episodes of care and other treatment information. (p-16, 5-23)
		Can review records on card.		×		
Edelson/Mayaud.	Erfel :	Pitroda 🔭	· Cummings ·	*Comments* * Johnson	* Comments*	Medical Service Provider features
						to other service participants. (p-38, 10-24)
						and other treatment options and can use the
						information, review procedures, medications
				×		User can query the AI medications/
						records. (p-38, 5-8)
						listing for health care reimbursement
						printed reports, including IRS accounting,
				<u></u>		and use formatting option to construct
				×		User can access health care information
Edelson/ Mayaud	Ertel	Pitroda	Cummings	Johnson	Comments	General Features

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
codes are shown with their definitions. (p-39, 28-30)						
Service information, formatted service		×				
recipient records and potential diagnostic	•					
codes transmitted between the host and					*	
remote or provider terminal. (p-5, 17-21) (p-			٠	÷		
12, 4-11)						
Codes for medical plans/benefits shown		×				
with full textual code descriptions in selected						
language. Patient history includes			-			
procedures, medications and dates, as well	-					
as emergency, allergy, contact and						
identification information, insurance						
information, functional status, treatment						
preferences and comments and changes to						
history as noted by patient. (p-40, 1-7)						
On-line help feature for service provider		×				
use. (p-40, 9-24)						
Features support service provider access to		×				
all patient information, avoiding redundant						
tests and allowing provider to analyze						
patient information. (p-40, 22-30)						
Supports integration of text, tables, video,		×				
animation and audio display. (p-41, 1-2)						
Data can be configured to display according		×				
to multiple view perspectives and can be						
used in preparing written records and						
reports. (p-41, 4-20)		i				
The user can use the data to generate		×				
communication with any other participants						
of the system. (p-41, 22-30)	,		:			
The service provider uses the service		×	Claimed, but			
recipient's record and diagnostic codes to			not designed.			
prepare updated patient record from result						
of current appointment. (p-42, 1-15)						

				×	3	Patient ICC updated with time-stamped
						sent, which can initiate a manual procedure to handle exceptions, appeals and questions. (p-44, 26-30)
			not designed.	*		due to plan parameters, decline message
			or operable.			45, 27 through p-46, 22)
		•	not designed			output. (p-43, 6-12 and p-44, 23-24 and p-
			claimed, but			Negative results are included on all printed
			feature			checked for conflict and noted in record.
			Limited	×		Result of procedure and medication
					-	15-21)
	·		not operable.			for appointment to selected provider. (p-44
			claimed, but	>		access information and can send message
			Deferred and	<		Consign consideration formal providers with
			not designed.			parties and can submit payment invoicing. (p-44, 1-13)
			Claimed, but	×		Service calculates payment amounts for all
						through p-44, 1-26)
			not designed.			services and/or referral. (p-43, 24-30
			Claimed, but	×		User can construct an authorization for
						questions and referrals. (p-43, 5-6)
						other users of the system for professional
				×		User can prepare communication with any
						through p-43, 1-22)
						research and other questions. (p-42, 26-30
						queries for research, training, outcomes
				×		User can construct online and offline
			access.			(p-42, 17-24)
-			and no			and define procedures and limiting factors.
			not available			information to prompt for questions, data,
			Claimed but	×		User can access online diagnostic
j			Manual only.			
			not operable.			appended to the patient record. (p-42, 9-15)
			Claimed, but	×		Test results and other data can be
Edelson/ Mayaud	Ertel	Pitroda	Cummings	Johnson	Comments	General Features

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				×		service provider database available to
Edelson/Mayaud	(Extel)	(Flitroda	Quandage	Johnson	Comments	MedicaliResearch (eatures
			use.			
			never defines			other participating entities. (p-50, 4-18)
			mail, but			issues, questions, exceptions, etc. with
			optional e-			attachment and transmission to support
			Calls for	×		Communication features allow record
				>		(p-49, 1-2)
				<		Automated hilling of un-reimbured services
						50, 18)
				>		payment record updates. (p-49, 2 through p-
				<		Manual adjustment and automatic
				×		Preparation of periodic accounting reports. (p.48, 29-30)
						48, 25-30)
						claims submissions and EFT payments. (p-
				×		Automation of service payments, insurance
						authorized agencies. (p-48, 4-19)
				×		Centralized expert data update limited to
						record updates. (p-47, 17 through p-48, 2)
				×		Security parameters controlled at host for all
	records					
	loaded data			>		update fields. (p-47, 4-23)
	Chacking for			<		Data integrity checking performed on all
						care optimization. (p-46, 26 through p-47,
				×		User can review plan parameters to define
			not designed.			(p-45, 18 through p-46, 22)
			Claimed, but	×		Al functions used for diagnostic purposes.
						9-16)
				>		and customized reports and records (n-45
						result of service provider appointment. (p-45, 1-7)
Edelson/ Mayaud	Ertel	Pitroda	Cummings	Johnson	Comments	General Features

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
regulatory agencies to perform analysis. (p-25, 28-30 through p-26, 1-9)						
Research queries available to support		×				
product development, public health,						
utilization and quality review, regulatory and						
compliance review, education, and scientific						
and health care research. (p-50, 20-24)						
Health care data can be provided for		X				
research, education and monitoring						
purposes by a wide array of agencies,						
institutions, research organizations and		-				
companies and are available for regulatory						
purposes. (p-52, 19-26 and p-53, 4-16)						
Queries are available for service providers		×		*		
and service recipients to research treatment						
options and develop support and						
information networks. (p-50, 23-26)						
Data queries constructed using the		×				
standardized definitions stored in the data						
dictionary. (p-50, 28-29 and p-55, 10-16)						
Repeating query can be defined along with		×		_		
frequency of data download, query can be						-
locally stored and revised as needed. (p-50,						
29 through p-51, 30)						
Sub-fields for qualifying a search and		×				
presenting resulting data can be defined.				٠		
(p-52, 2-5)					,	
Data can be stripped of identifying		×				
information. (p-51, 5-6)						
Data returned in a relational database		X				
format. (p-54, 1-2)						
Data returned from query can be accessed		×				
by standard data analysis tools or by		=				
customized models. (p-52, 7-9)						
Data selection capabilities in which the		×				

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
researcher can define data elements and			,	,		
search parameters provides for a wide array						
of research data opportunities through a						
single source. (p-52, 28 through p-54, 16)						
Searches are supported for analysis of past		×				
clinical experience, including within						
individual an individual provider setting, and						
can be used for cost-effectiveness and						
outcomes of care. (p-53, 24 through p-54,						
16)	٠					
Standardized pre-selected information		X				
processes support automatic integration of						
search data with locally stored baseline						
data. (p-54, 18 through p-55, 3)						
Features support comparisons of local,		×				
state, national and international data to						
support analysis, as well as promoting						
regional, national and international health						
objectives and identification of localized		•				
health problems and risks. (p-55, 5-16)						
	Comments #	- nosnnot	Cummings	Pitroda	Ertel	Edelson/Mayaud 📰
Platform services designed into the system		×				
provide operational maintainability of the						
entire system infrastructure. (p-55, 18						
through p-56, 30)						
Backup and restore capabilities built into		×				
system ensure data integrity and availability.						
(p-56, 5-13)					•	
Central features are designed into the		×				
platform and used for data structure updates						
and database record appending. Data						
management, such as data retention						
parameters for records, is defined within the						
data dictionary fields. Central security						
features support the secure access and					-	
data integrity of all data, all users and all						

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
system and service processing. (p-56, 15-30)						
All security parameters defining access		×				
groups and identifying data availability for		-				
the access groups for each data field or		,				
value range within each field in each system						
database are under secure control through						
the security platform services. (p-57, 2-8)						
Centralized account parameters apply to the		×				
entire platform and define tiered use, pricing						
and billing relationships which can include						
nested parent/child entity definitions. (p-57,		,				
10-17)						
Update records are identified and applied to		×				
the central records to support full auditability						
for all system records. (p-57, 14-20)						
A problem tracking system using electronic		×				
foldering capabilities is designed into the						
platform of shared services to manage all						
exceptions and dispute processes. (p-57,						
20-28)						-
Customer service has dispute resolution		×				
features which include authorized security to						
update any file through appending an						
attached record to record under dispute. (p-						
58, 1-12)		,				
Customer service central record can		×				
override an automated activity. (p-58, 1-12)						
System defines the core data elements,		×				
describes how the standardized codes and	٠		2			
definitions are maintained in the common						
data dictionary, and defines the platform			•			
services and how those features are used.						
(p-15, 6-29)						

General Features	Comments	Johnson	Cummings	Pitroda	Ertel	Edelson/ Mayaud
Reversal handling for dispute resolution. (p-58, 3-12)		×			:	
On-line billing history archive available and		×				
records can be embedded in electronic						
message to any user of the service						
components. (p-58, 14-23)						-
All system support staff have messaging		×				
services to any service participant for all						
system and service related questions. (p-						
58, 25-29)						
Billing system integrated into platform where		×				
the organizational roll-up can be used to						
define invoiced entities. Counters				·	-	
incremented during system usage enable						
billing records. (p-59 1-18)						
Customers electronically invoiced and		×				
payment can be made electronically. (p-59, 14-18)						
Electronic invoice copy automatically		×				
transmitted to electronic output archive. (p-						
59, 14-16)						
Secure access for designated authorized	_	×				
agencies to add and change standardized						
codes for all prognoses, treatments,						
medications and treatments as stored within						
the data dictionary. (p-59, 20 through p-60,						
Authorized agencies have canabilities to		×				
define new category codes, cross		,				
references, descriptions and codes						
identifying warning conditions or						
incompatibilities. (p-60, 2-5)						
Active dates can be defined by authorized		×				
agencies for application of data dictionary						
changes, to support procedural approvals,						

General Features	Comments	Johnson	Comments Johnson Cummings	Pitroda	Ertel	Edelson/ Mayaud
etc. (p-60, 7-18)						
Authorized agencies can update service		×				
provider information including licensing				-		
information, disciplinary actions, continuing						
education, and organizational ownership.						
(p-60, 20 through p-61, 16)						